

Fig. 1

```

input  P11,P12,P13,P14;
output PO2,PO1;
assign sel1 = P11&P12;
assign sel2 = P13|P14;
assign w1 = P12^P13;
assign PO2 = w2|P11;
always@(sel1,w1,w2)
begin
    case (sel1)
    0 : PO1 = w1;
    1 : PO1 = w2;
    default : PO1 = w1;
    endcase
end
always@(sel2,P11,P13,P14)
begin
    if (sel2)
        w2 = P13;
    else
        w2 = P14;
    end
end

```

Fig. 2

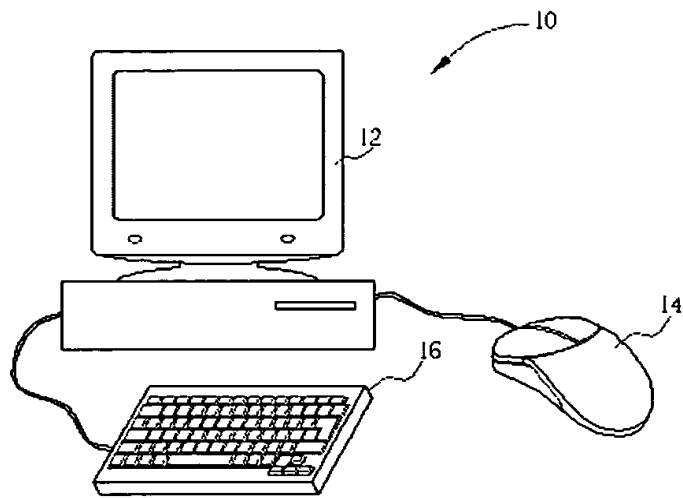


Fig. 3

00524100.072504

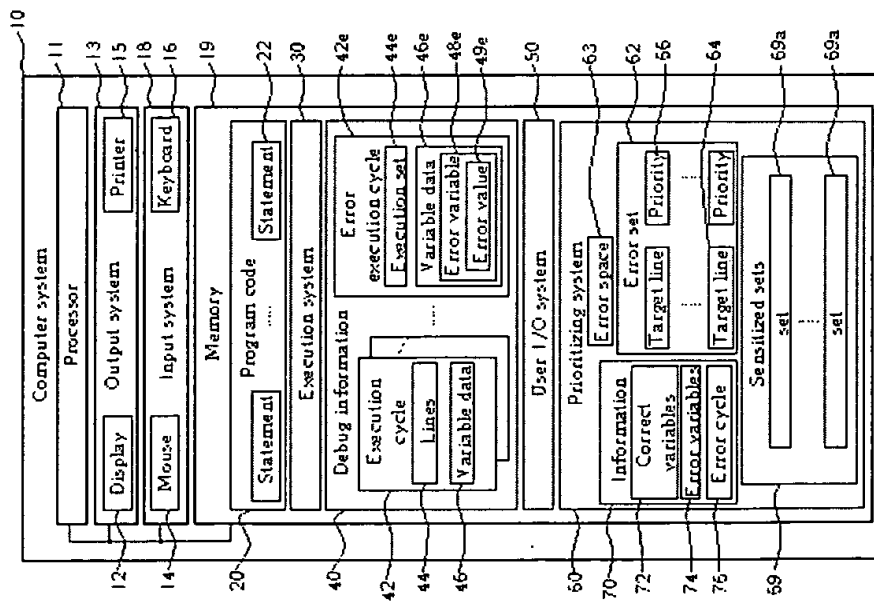


Fig. 4